

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L5	1	"10/396118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L6	1	10/748236	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L7	415	interpolat\$3 with phase with quadrature	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L8	15	interpolat\$3 with phase with quadrature with adjust\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L9	1	interpolat\$3 with phase with quadrature with adjust\$3 and (eye with diagram)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L10	1	((interpolat\$3 with phase with adjust\$3) same quadrature) and (eye with diagram)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L11	2	"6,359,878".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04

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L12	6	((interpolat\$3 same phase same adjust\$3) same quadrature) and (eye with diagram)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L13	8620	chip adj die	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L14	62	((interpolat\$3 and phase and adjust\$3) and quadrature) and (eye adj diagram)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L15	1	L14 and L13	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L16	2	"4805191".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L17	2	"5,065,409".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L18	2	"6731697".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04

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L19	2	"6,097,794".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L20	2	"5,872,836".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L21	2	"5,724,413".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L22	11	(clock adj recovery) with (phase adj interpolator) and quadrature	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L23	64	(clock adj recovery) with (phase adj interpolator)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L24	13	(clock adj recovery) same (phase adj interpolator) and quadrature	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L25	30	(clock adj recovery) and (phase adj interpolator) and quadrature	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04

## EAST Search History

L26	343	interpolator and (phase near3 adjust\$3) and quadrature	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L27	3289	375/371	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L28	4226	375/354	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L29	4300	((interpolat\$3 and phase and adjust\$3) and quadrature)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L30	90	interpolator same (phase near3 adjust\$3) and quadrature	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L31	10	L28 and L30	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L32	20	L27 and L30	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04

## EAST Search History

L33	23	("4692931"   "4815103"   "5016206"   "5093841"   "5202901"   "5255289"   "5259005"   "5283815"   "5309482"   "5311544"   "5343498"   "5425057"   "5504785").PN. OR ("5602879").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/23 22:04
L34	34	("5386239"   "5504785"   "5535252"   "5610948"   "5612975"   "5724396"   "5793818").PN. OR ("5878088").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/23 22:04
L35	0	("2004/0037366").URPN.	USPAT	OR	ON	2007/08/23 22:04
L36	51	(clock adj recovery) with (phase with interpolator) and quadrature	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L37	0	("2004/0037366").URPN.	USPAT	OR	ON	2007/08/23 22:04
L38	90	interpolator with correlator	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/23 22:04
L39	1	interpolator with correlator and quadrature and clock adj recovery	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/23 22:04
L40	178	(clock adj recovery) and (interpolator) and quadrature	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L41	23	L28 and L40	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L42	1	(clock adj recovery) with (interpolator) with quadrature	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04

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L43	11	(clock adj recovery) same (interpolator) same quadrature	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L44	3	"6,671,342".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L45	23	("4692931"   "4815103"   "5016206"   "5093841"   "5202901"   "5255289"   "5259005"   "5283815"   "5309482"   "5311544"   "5343498"   "5425057"   "5504785").PN. OR ("5602879").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/23 22:04
L46	124	interpolator with polyphase	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/23 22:04
L47	38	interpolator with correlator and quadrature	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/23 22:04
L48	0	interpolator with correlator and pliphase	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/23 22:04
L49	0	interpolator with correlator and pliphaseo	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/23 22:04
L50	7	interpolator with polyphase and clock adj recovery	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/23 22:04
L51	64	(clock adj recovery) with (phase adj interpolator)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L52	10	interpolator with correlator and polyphase	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/23 22:04
L53	0	interpolator with correlator and "poly-phase"	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/23 22:04

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L54	2	L7 and L13	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L55	9	interpolator and correlator and "poly-phase"	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/23 22:04
L56	1	L51 and L13	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L57	1	L40 and L13	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L58	4	L29 and L13	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:04
L59	1	L26 and L13	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:05
L60	7	(interpolat\$3 with phase with quadrature with adjust\$3).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:05

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L61	12	(interpolator and phase and quadrature and adjust and "in-phase").clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:05
L62	241	polyphase adj filter with interpolat\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:05
L63	74	polyphase adj filter with interpolat\$3 same phase	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:05
L64	0	polyphase adj filter with interpolator with adjust with phase	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:05
L65	0	polyphase adj filter with interpolat\$3 with adjust with phase	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:05
L66	37	polyphase adj filter with interpolat\$3 with phase	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:05
L67	2	"5878088".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:06



## EAST Search History

L68	2	"6898252".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:16
L69	2	"20030104798".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:20
L70	2	"6172939".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:21
L71	2	"5745392".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/23 22:21

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Digital variable symbol timing recovery system for QAM - US Patent ...

In a receiver receiving a transmitted **quadrature** amplitude modulated (QAM) signal representing successive symbols, the QAM signal including an **in-phase** (I) ...

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Digital variable symbol timing recovery system for QAM - US Patent ...

A receiver is arranged for receiving a transmitted **quadrature** amplitude modulated (QAM) signal representing successive symbols, and including an **in-phase** ...

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Programmable phase interpolator adjustment for ideal data eye ...

A system, comprising: a **first interpolator** to adjust a phase of an **in-phase** signal; and a **second interpolator** to adjust a phase of a **quadrature** signal, ...

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IQ mismatch cancellation - Patent 6898252

selecting a value of the **in-phase/quadrature** phase mismatch cancellation .... a **first interpolator** 36, a **second interpolator** 38, a predistorter 80, ...

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IQ mismatch cancellation - Patent Review 6898252

A transmitter according to claim 22, comprising: an **in-phase/quadrature** phase ... a **first interpolator** 36, a **second interpolator** 38, a predistorter 80, ...

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Variable rate modulator - Patent Review 6870429

The stage 18 is designated as QAM (**quadrature** amplitude modulated)/QPSK (differential **quadrature** phase shift keyed) symbol mapping. For example, in 16-QAM, ...

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Pulse or digital communications patents new

The amplitude information is obtained from **in-phase** and **quadrature**-phase ... a **first interpolator** and a **second interpolator**, each of which receives two of ...

[www.freshpatents.com/Pulse-or-digital-communications-dtnewntc375.php](http://www.freshpatents.com/Pulse-or-digital-communications-dtnewntc375.php) - 164k - [Cached](#) - [Similar pages](#) - [Note this](#)

Apparatus and method for a digital delay locked loop - Patent ...

The method includes converting a reference clock signal into an **in-phase** reference ... A **quadrature** control circuit varies the offset value and monitors the ...

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(WO/1998/012836) COMPONENT TIMING RECOVERY SYSTEM FOR QAM- [ [Translate this page](#) ]

(EN) A receiver for a transmitted **quadrature** amplitude modulated (QAM) signal representing successive symbols, and including an **in-phase** (I) component and a ...

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[Delay locked loop circuitry for clock delay adjustment - Patent ...](#)

... an output clock which is **in phase** with one of the selected phase vectors; .... **first interpolator** circuitry, coupled to the second adjustable delay ...

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Web Results 1 - 5 of 5 for "**first interpolator**" "**second interpolator**" "**in-phase**" quadrature independently. (1

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**Programmable phase interpolator adjustment for ideal data eye ...**

A system, comprising: a **first interpolator** to adjust a phase of an **in-phase** signal; and a **second interpolator** to adjust a phase of a **quadrature** signal, ...

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**freepatentsonline.com: Pulse or digital communications - Patent ...**

The amplitude information is obtained from **in-phase** and **quadrature**-phase .... a **first interpolator** and a **second interpolator**, each of which receives two of ...

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**Method and apparatus for transmit beamformer system - US Patent ...**

If the initial waveform samples provided in memory T304 are complex, then in some embodiments it might be provided in **in-phase/quadrature** form, ...

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**Method and apparatus for transmit beamformer system - Patent ...**

The two multiplexers are **independently** controlled by the beamformer central ..... o  
slashed. of phase and frequency processor T418 in **in-phase/quadrature** ...

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**Method and apparatus for transmit beamformer - Patent Review 5675554**

a **second interpolator** for upsampling said intermediate waveform samples to ..... (1)

Doppler receive beamformer single-beam complex **in-phase/quadrature** data ...

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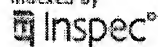
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IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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IEEE STD IEEE Standard

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## Inventor Information for 10/748236

<b>Inventor Name</b>	<b>City</b>	<b>State/Country</b>
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<a href="#">10748236</a>	Not Issued	41	12/31/2003	Programmable phase interpolator adjustment for ideal data eye sampling	KOENENKAMP, INGO

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